

AMENDMENTS TO THE DRAWINGS

The attached sheet(s) of drawings include(s) changes to FIGs. 1 and 2.

Attachment: Replacement sheets

REMARKS

By this amendment, claims 1, 16, and 40 have been amended. Claims 3, 19, and 42 have been canceled. Claims 1-2, 4-18, 20-42, and 43-49 are pending in the application. Applicant reserves the right to pursue the original claims and other claims in this and other applications.

The specification and drawings stand objected to and have been amended as suggested in the Office Action. No new matter has been added. Accordingly, the application is believed to be in condition for allowance.

Claims 1-49 stand rejected under 35 U.S.C. § 102(e) as being anticipated by Hong (US 2005/0040393). This rejection is respectfully traversed.

Claim 1, as amended, recites a method of forming a pixel cell of an imaging device comprising, *inter alia*, “forming at least one transistor in said pixel cell to have a gate and source/drain regions on opposite sides of said gate, at least one of said source/drain regions having no halo implant, wherein at least one of said source/drain regions have no lightly doped drain implant” (emphasis added). Hong does not disclose this limitation. To the contrary, Hong discloses in the description of FIG. 5F, which is part of the fabrication of the pixel 300, shown in FIGs. 2B and 4A-4C, that “lightly doped drain (LDD) implants are performed by known techniques to provide LDD regions 305a and 307a.” Hong paragraph [0054] (emphasis added). Hong does not disclose any other source or drain regions. Therefore, since the only source or drain regions disclosed in Hong have lightly doped drain (LDD) implants, there is no disclosure of at least one of said source/drain regions having no lightly doped drain implant as recited in claim 1. Since Hong does not disclose all the limitations of claim 1, claim 1 and dependent claims 2-15 are not anticipated by Hong.

Claim 16, as amended, recites a method of forming a pixel cell of an imaging device comprising, *inter alia*, “forming at least one transistor in said pixel cell to have a gate receiving charge from said photosensitive device and source/drain regions on opposite sides of said gate, at least one of said source/drain regions having no enhancement implant, wherein at least one of said source/drain regions have no lightly doped drain implant” (emphasis added). Hong does not disclose this limitation. To the contrary, Hong discloses in the description of FIG. 5F, which is part of the fabrication of the pixel 300, shown in FIGs. 2B and 4A-4C, that “lightly doped drain (LDD) implants are performed by known techniques to provide LDD regions 305a and 307a.” Hong paragraph [0054] (emphasis added). Hong does not disclose any other source or drain regions. Therefore, since the only source or drain regions disclosed in Hong have lightly doped drain (LDD) implants, there is no disclosure of at least one of said source/drain regions having no lightly doped drain implant as recited in claim 16. Since Hong does not disclose all the limitations of claim 16, claim 16 and dependent claims 17-27 are not anticipated by Hong.

Claim 28 recites a method of forming a pixel cell of an imaging device comprising, *inter alia*, “forming at least one transistor in said pixel cell to have a gate receiving charge from said photosensitive device and source/drain regions on opposite sides of said gate, at least one of said source/drain regions having no lightly doped drain implant” (emphasis added). Hong does not disclose this limitation. To the contrary, Hong discloses in the description of FIG. 5F, which is part of the fabrication of the pixel 300, shown in FIGs. 2B and 4A-4C, that “lightly doped drain (LDD) implants are performed by known techniques to provide LDD regions 305a and 307a.” Hong paragraph [0054] (emphasis added). Hong does not disclose any other source or drain regions. Therefore, since the only source or drain regions disclosed in Hong have lightly doped drain (LDD) implants, there is no disclosure of at least one of said

source/drain regions having no lightly doped drain implant as recited in claim 28.

Since Hong does not disclose all the limitations of claim 28, claim 28 and dependent claims 29-39 are not anticipated by Hong.


Claim 40, as amended, recites a method of forming a pixel cell of an imaging device comprising, *inter alia*, "forming a second transistor in said pixel cell to have a second gate for resetting a signal from said first transistor and second source/drain regions on opposite sides of said second gate, at least one of said second source/drain regions having no halo implant, wherein at least one of said source/drain regions have no lightly doped drain implant" (emphasis added). Hong does not disclose this limitation. To the contrary, Hong discloses in the description of FIG. 5F, which is part of the fabrication of the pixel 300, shown in FIGs. 2B and 4A-4C, that "lightly doped drain (LDD) implants are performed by known techniques to provide LDD regions 305a and 307a." Hong paragraph [0054] (emphasis added). Hong does not disclose any other source or drain regions. Therefore, since the only source or drain regions disclosed in Hong have lightly doped drain (LDD) implants, there is no disclosure of at least one of said second source/drain regions having no lightly doped drain implant as recited in claim 40. Since Hong does not disclose all the limitations of claim 40, claim 40 and dependent claims 41-49 are not anticipated by Hong.

Applicant respectfully requests that the 35 U.S.C. § 102(e) rejection of claims 1-49 be withdrawn.

In view of the above amendment, Applicant believes the pending application is in condition for allowance.

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Respectfully submitted,

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Attachments

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REPLACEMENT SHEET